**Intelli-M Access REST API**

|  |  |  |
| --- | --- | --- |
| **Version** | **Date** | **Comments** |
| 5.0 | 1/28/2016 | New API for IntelliM Access 5.1 and later |
| 5.2 | 2/3/2016 | New API for IntelliM Access 5.2 and later |
| 5.2 | 2/25/2016 | Fix url for SuspendPerson, id parameter for SetScope and SuspendPerson |
| 5.2 | 2/26/2016 | Fix cameraIds parameter |
| 5.2 | 3/8/2016 | Return two cameraIds per event |
| 5.2 | 3/24/2016 | Add Token Authentication description |
| 5.2 | 6/6/2016 | Add UserId to Token Authentication endpoint |
| 5.2 | 8/16/2016 | Add Doors/Cardholders |

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# General Description

The Intelli-M Access REST API is patterned after the HTTP REST API standard, whose definition can be found [here](http://en.wikipedia.org/wiki/Representational_State_Transfer).

## Authentication

Two authentication methods are provided; username/password and token authentication.

### Username/Password

The API has no authentication requirements (meaning you can connect to this API without providing credentials). However, you must provide Intelli-M Access credentials with each REST call using the argument names “username” and “password”. If the call is a GET or DELETE, the credentials must be supplied as part of the query string as parameters, and if the call is POST or PUT, the credentials must be part of the Body.

### Token Authentication

Token based authentication provides a significant enhancement in security and simplify the calls to the API. When this feature is enabled, all REST calls (GET, DELETE, POST, and PUT) must include a Bearer token authorization in the header, the bearer token will take the place of the username and password in every call. The bearer token can be obtained by calling the [AccessToken](#_Access_Token) endpoint. Which provides a token with a TTL of 20 minutes. After its expiration, a new token must be issued in order to access the APIs.

Token authentication is available only when using https API access. To enable token based authentication, the Intelli-M Access API must utilize a valid and signed SSL certificate. Such certificate can be purchase through 3xLOGIC’s sales department or any certificate authority.

## Post and Put Data

Data sent with a Post or Put request must be Form-UrlEncoded.

## Licensing

Some API features may require licensing. If it is required, Infinias will provide a license key which must be included as a parameter on each REST call as a “licensekey” string parameter.

## API Discovery

This API can also be viewed by opening your web browser and entering http://*hostname*:18779/intellimaccess/ruleaction/discovery into the web browser's URL text box (where *hostname* is the name of the computer on which you installed Intelli-M Access. The browser will display Xml data with links to the highest-level API Resources, which in turn will provide links to the API for each Resource. In Intelli-M Access, a Resource is a Door, a Person, a Zone, an Email, or an Event.

The following section describes each Resource, and the calls you can make to each Resource. In each case, you will replace the *hostname* keyword with the actual name or IP Address of the computer on which you installed Intelli-M Access.

# Legacy API

The “Legacy API” includes requests implemented in Intelli-M Access version previous to 5.0. The data return formats were not always consistent. We have left those requests intact so that current users of the API will not have their applications broken by the 5.x releases. The default format for data returned from a legacy GET is varied, but Xml format can be requested by adding the URI parameter “format=xml and JSON can be requested by adding the parameter “format=json”. Legacy requests also returned different wrappings depending on the request.

## Doors

The Doors API provides the capability to lock or unlock Doors, return them to the current lock schedule, energize or de-energize one or more Door outputs, and activate or de-activate one or more Door inputs. You must know the Door Id as understood by Intelli-M Access in order to perform work on a Door. Use the "Get Doors' Names and Values" Command to obtain the Door Id for the name you seek to modify.

### Get the status of a single Door

|  |  |
| --- | --- |
| URI | http://hostname:18779/infinias/ia/Doors |
| Method | GET |
| URI Parameters | |  |  | | --- | --- | | DoorIds=1 |  | |
| Returns | |  | | --- | | 404 Not Found | | 401 Unauthorized | | 200 OK  {"success":true,  "data":{"Items":[  {"Name":"Door 26",  "State":"Locked",  "IsOpen":false,  "IsForcedOpen":false,  "IsHeldOpen":false,  "IsLockdown":false,  "InputBypassed":false,  "OutputOverridden":false,  "ServiceOverridden":false,  "NeedsUpdate":false,  "DeviceStatus":"Online",  "HasEvents":true,  "Reader1Zone":"Inside",  "Reader2Zone":"Outside",  "Address":"10.1.1.99",  "MacAddress":"00-14-E4-00-5D-28",  "SerialNumber":"19752",  "Id":1}],  "Count":1},  "errorList":null} | |
| Example | http://localhost:18779/infinias/ia/doors?username=admin&password=admin&doorids=1 |

### Lock one or more Doors (allow card swipes)

|  |  |
| --- | --- |
| URI | http://hostname:18779/infinias/ia/Doors |
| Method | PUT |
| Body | LockStatus=Locked&  DoorIds=1,2,3&  Duration=10&  Username=admin&  Password=admin |
| Returns | |  | | --- | | 404 Not Found | | 401 Unauthorized | | 200 OK | |

### (Disabled/Deprecated) Lock all Doors (allow card swipes)

This functionality has been deprecated.

### Unlock one or more Doors

|  |  |
| --- | --- |
| URI | http://hostname/infinias/ia/Doors |
| Method | PUT |
| Body | LockStatus=Unlocked&  DoorIds=1,2,3&  Duration=10&  username=admin&password=admin |
| Returns | |  | | --- | | 404 Not Found | | 401 Unauthorized | | 200 OK | |

### (Disabled/Deprecated) Unlock all Doors

This functionality has been deprecated.

### Revert one or more Doors to schedule

|  |  |
| --- | --- |
| URI | http://hostname:18779/infinias/ia/Doors |
| Method | PUT |
| Body | LockStatus=Normal&  DoorIds=1,2,3&  username=admin&password=admin |
| Returns | |  | | --- | | 404 Not Found | | 401 Unauthorized | | 200 OK | |

### Revert all Doors to schedule

|  |  |
| --- | --- |
| URI | http://hostname:18779/infinias/ia/Doors |
| Method | PUT |
| Body | LockStatus=Normal&  username=admin&password=admin |
| Returns | |  | | --- | | 404 Not Found | | 401 Unauthorized | | 200 OK | |

### Energize one or more Door outputs

|  |  |
| --- | --- |
| URI | http://hostname:18779/infinias/ia/Doors |
| Method | PUT |
| Body | DoorIds=1,2,3&  IONames=Output 1&  Energized=true&  username=admin&password=admin |
| Returns | |  | | --- | | 404 Not Found | | 401 Unauthorized | | 200 OK | |

### De-energize one or more Door outputs

|  |  |
| --- | --- |
| URI | http://hostname:18779/infinias/ia/Doors |
| Method | PUT |
| Body | DoorIds=1,2,3&  IONames=Output 1&  Energized=false&  username=admin&password=admin |
| Returns | |  | | --- | | 404 Not Found | | 401 Unauthorized | | 200 OK | |

### Activate one or more Door inputs

|  |  |
| --- | --- |
| URI | http://hostname:18779/infinias/ia/Doors |
| Method | PUT |
| Body | DoorIds=1,2,3&  IONames=Input 1&  Energized=true&  username=admin&password=admin |
| Returns | |  | | --- | | 404 Not Found | | 401 Unauthorized | | 200 OK | |

### De-activate one or more Door inputs

|  |  |
| --- | --- |
| URI | http://hostname:18779/infinias/ia/Doors |
| Method | PUT |
| Body | DoorIds=1,2,3&  IONames=Input 1&  Energized=false&  username=admin&password=admin |
| Returns | |  | | --- | | 404 Not Found | | 401 Unauthorized | | 200 OK | |

### Get Doors' Names and Values (Xml Version)

|  |  |
| --- | --- |
| URI | http://hostname:18779/infinias/ia/Doors/Names/Values |
| Method | GET |
| URI Parameters | |  |  | | --- | --- | | Start=0 |  | | Pagesize=100 |  | |
| Returns | |  | | --- | | 404 Not Found | | 401 Unauthorized | | 200 OK    <?xml version="1.0" encoding="utf-8" ?>  [-](http://mikepc:18779/Infinias/IA/doors/names/values?username=admin&password=admin) <Xml>  [-](http://mikepc:18779/Infinias/IA/doors/names/values?username=admin&password=admin) <Values>    <FriendlyValue>doorIds</FriendlyValue>    <ActualValue>{doorIds}</ActualValue>    </Values>  [-](http://mikepc:18779/Infinias/IA/doors/names/values?username=admin&password=admin) <Values>    <FriendlyValue>Door 26</FriendlyValue>    <ActualValue>1</ActualValue>    </Values>    <NextRealizeUrl />    </Xml> | |
| Example | http://localhost:18779/infinias/ia/events?username=admin&password=admin&start=0&pagesize=100& |

### Get Doors' Names and Values (JSON Version)

|  |  |
| --- | --- |
| URI | http://hostname:18779/infinias/ia/Doors/Names/Values |
| Method | GET |
| URI Parameters | |  |  | | --- | --- | | Start=0 |  | | Pagesize=100 |  | |
| Returns | |  | | --- | | 404 Not Found | | 401 Unauthorized | | 200 OK  {"Values":[  {"FriendlyValue":"doorIds","ActualValue":"{doorIds}"},  {"FriendlyValue":"Door26","ActualValue":"1"}],  "NextRealizeUrl":""} | |
| Example | http://localhost:18779/infinias/ia/events?username=admin&password=admin&start=0&pagesize=100&format=json | |
| Comment |  | |

### Prevent/Restore Card Access

|  |  |
| --- | --- |
| URI | http://hostname:18779/infinias/ia/Doors/Cardholders |
| Method | PUT |
| Body | **Available Parameters**  DoorIds: List of door ids  PreventAccess: operation – true to block access, false to restore  ReaderId: Reader to operate on; 0 for IN, 1 for OUT  Duration: Duration minutes  SiteCode: Site code of card to operate on  CardCode: Card code of card to operate on  e.g.  DoorIds=1,2,3&  PreventAccess=true&  ReaderId=0&  SiteCode=1&  CardCode=12345&  Duration=5 |
| Returns | |  | | --- | | 404 Not Found | | 401 Unauthorized | | 200 OK | |

## Zones

### Lock one or more Zones (allow card swipes)

|  |  |
| --- | --- |
| URI | http://hostname:18779/infinias/ia/zones |
| Method | PUT |
| Body | LockStatus=Locked&  ZoneIds=1,2,3&  Duration=10&  username=admin&password=admin |
| Returns | |  | | --- | | 404 Not Found | | 401 Unauthorized | | 200 OK | |

### (Disabled/Deprecated) Lock all Zones (allow card swipes)

This functionality has been deprecated.

### Unlock one or more Zones

|  |  |
| --- | --- |
| URI | http://hostname/infinias/ia/zones |
| Method | PUT |
| Body | LockStatus=Unlocked&  ZoneIds=1,2,3&  Duration=10&  username=admin&password=admin |
| Returns | |  | | --- | | 404 Not Found | | 401 Unauthorized | | 200 OK | |

### (Disabled/Deprecated) Unlock all Zones

This functionality has been deprecated.

### Revert one or more Zones to schedule

|  |  |
| --- | --- |
| URI | http://hostname:18779/infinias/ia/zones |
| Method | PUT |
| Body | LockStatus=Normal&  ZoneIds=1,2,3&  username=admin&password=admin |
| Returns | |  | | --- | | 404 Not Found | | 401 Unauthorized | |  | |

### Revert all Zones to schedule

|  |  |
| --- | --- |
| URI | http://hostname:18779/infinias/ia/zones |
| Method | PUT |
| Body | LockStatus=Normal&  username=admin&password=admin |
| Returns | |  | | --- | | 404 Not Found | | 401 Unauthorized | | 200 OK | |

### Get Zones' Names and Values (Xml Version)

|  |  |
| --- | --- |
| URI | http://hostname:18779/infinias/ia/zones/Names/Values |
| Method | GET |
| URI Parameters | |  |  | | --- | --- | | Start=0 |  | | Pagesize=100 |  | |
| Returns | |  | | --- | | 404 Not Found | | 401 Unauthorized | | 200 OK  <?xml version="1.0" encoding="utf-8" ?>  [-](http://mikepc:18779/Infinias/IA/zones/names/values?start=0&pagesize=100&username=admin&password=admin) <Xml>  [-](http://mikepc:18779/Infinias/IA/zones/names/values?start=0&pagesize=100&username=admin&password=admin) <Values>  <FriendlyValue>**zoneIds**</FriendlyValue>  <ActualValue>**{zoneIds}**</ActualValue>  <ParentZone></ ParentZone >  <ZoneHierarchy></ ZoneHierarchy >  </Values>  [-](http://mikepc:18779/Infinias/IA/zones/names/values?start=0&pagesize=100&username=admin&password=admin) <Values>  <FriendlyValue>**Inside**</FriendlyValue>  <ActualValue>**2**</ActualValue>  <ParentZone>1</ ParentZone >  <ZoneHierarchy>0001|0005</ ZoneHierarchy >  </Values>  [-](http://mikepc:18779/Infinias/IA/zones/names/values?start=0&pagesize=100&username=admin&password=admin) <Values>  <FriendlyValue>**Outside**</FriendlyValue>  <ActualValue>**3**</ActualValue>  <ParentZone>1</ ParentZone >  <ZoneHierarchy>0001|0006</ ZoneHierarchy >  </Values>  <NextRealizeUrl />  </Xml> | |
| Example | http://localhost:18779/infinias/ia/zones/Names/Values?username=admin&password=admin&start=0&pagesize=100&start=0&pagesize=100&format=xml |

### Get Zones' Names and Values (JSON Version)

|  |  |
| --- | --- |
| URI | http://hostname:18779/infinias/ia/zones/Names/Values |
| Method | GET |
| URI Parameters | |  |  | | --- | --- | | Start=0 |  | | Pagesize=100 |  | |
| Returns | |  | | --- | | 404 Not Found | | 401 Unauthorized | | 200 OK  {"Values":  [  {"FriendlyValue":"zoneIds",  "ActualValue":"{zoneIds}",  “ParentZone”:””,  “ZoneHierarchy”:””},  {"FriendlyValue":"Inside",  "ActualValue":"2",  ”ParentZone”:1,  ”ZoneHierarchy”:”0001|0005”},  {"FriendlyValue":"Outside",  "ActualValue":"3",  ”ParentZone”:1,  ”ZoneHierarchy”:”0001|0006”}  ],  "NextRealizeUrl":""", | |
| Example | http://localhost:18779/infinias/ia/zones/Names/Values?username=admin&password=admin&start=0&pagesize=100&format=json |
| Comment | Results are sorted by ZoneHierarchy |
|  |  |

## People

“-1” means no parent

### Get info on all people

|  |  |
| --- | --- |
| URI | http://hostname:18779/infinias/ia/People |
| Method | GET |
| URI Parameters | |  |  | | --- | --- | | Start=0 |  | | pagesize=50 |  | |
| Returns | |  | | --- | | 404 Not Found | | 401 Unauthorized | | 200 OK  {"success":true,  "data":{"Items":[  {"FirstName":"Greg",  "LastName":"Millar",  "CardNumber":"2",  "CardStatus":"Active",  "EmployeeId":"",  "IsReceiveAlarms":"",  "UserRole":"None",  "IsGroupMember":false,  "MiddleInitial":"",  "IsCredentialHolder":true,  "Username":"",  "Id":3}],  "Count":2},  "errorList":null} | |
| Example | http://localhost:18779/infinias/ia/People?username=admin&password=admin&start=0& pagesize =50 |

### Get Details on a Person

|  |  |
| --- | --- |
| URI | http://hostname:18779/infinias/ia/People/Details |
| Method | GET |
| URI Parameters | |  |  | | --- | --- | | Id=2 *(or)* |  | | ExternalId=12345 |  | |
| Returns | |  | | --- | | 404 Not Found | | 401 Unauthorized | | 200 OK  {"success":true,  "data":{“Items”:[  {"FirstName":"Dean",  "MiddleInitial":null,  "LastName":"Meyer",  "EmployeeId":null,  "Title":null,  "Suffix":null,  "DisplayName":null,  "Department":null,  "ExternalId":null},  "ContactInfo":{  "Company":null,  "Office":null,  "Building":null,  "Position":null,  "LicensePlateNumber":null,  "PrimaryEmail":null,  "SecondaryEmail":null,  "Notes":null,  "PrimaryPhoneNumber":null,  "PrimaryExtension":null,  "CellPhoneNumber":null,  "ReceivesAlarmNotifications":false},  "GroupInfo":{  "GroupsToAdd":null,  "GroupsToRemove":null  },  "CustomFields":[],  "IsCredentialHolder":true,  "BadgeInfo":{"TimeZoneBias":0,  "PinCode":null,  "Status":"Active",  "ActivationDateTime":new Date(1280736000000),  "ExpirationDateTime":null,  "ActivationDate":"8/2/2010",  "ActivationTime":"12:00 AM",  "ExpirationDate":null,  "ExpirationTime":null,  "Disabled":false,  "SiteCode":"31",  "CardIssueCode":"16271",  "Id":2},  "IsSystemUser":false,  "RoleInfo":{"Role":null,  "Username":null,  "PasswordChanged":false,  "Password":null,"Id":0},  "SaveImage":false,  "Id":2}],  "errorList":null} | |
| Example | http://localhost:18779/infinias/ia/People?username=admin&password=admin&id=2 |

### Create Person (minimum fields populated)

|  |  |
| --- | --- |
| URI | http://hostname:18779/infinias/ia/People |
| Method | POST |
| Body | Id=0&  SaveImage=False&  ImageFilename=&  KeepImageAspect=False&  IsCredentialHolder=True&  IsSystemUser=True&  ExternalId=100&  PersonalInfo.Id=0&  PersonalInfo.FirstName=Mike&  PersonalInfo.MiddleInitial=&  PersonalInfo.LastName=Jones&  PersonalInfo.DisplayName=&  PersonalInfo.EmployeeId=&  PersonalInfo.Title=&  PersonalInfo.Suffix=&  PersonalInfo.Department=&  ContactInfo.PrimaryEmail=&  ContactInfo.SecondaryEmail=&  ContactInfo.Company=&  ContactInfo.Office=&  ContactInfo.Building=&  ContactInfo.Position=&  ContactInfo.LicensePlateNumber=&  ContactInfo.Notes=&  ContactInfo.PrimaryPhoneNumber=&  ContactInfo.PrimaryExtension=&  ContactInfo.CellPhoneNumber=&  GroupInfo.AddGroups=1&  GroupInfo.RemoveGroups=&  CustomFields=&  BadgeInfo.TimeZoneBias=0&  BadgeInfo.Disabled=False&  BadgeInfo.ExpirationDate=&  BadgeInfo.ExpirationTime=&  BadgeInfo.ActivationDate=7/30/2010&  BadgeInfo.ActivationTime=12:00 AM&  BadgeInfo.SiteCode=31&  BadgeInfo.CardIssueCode=18777&  BadgeInfo.PinCode=&  BadgeInfo.Id=0&  RoleInfo.Role=&  RoleInfo.Username=&  RoleInfo.Password=&  RoleInfo.PasswordConfirm=&  RoleInfo.PasswordChanged=True |
| Returns | |  | | --- | | 404 Not Found | | 401 Unauthorized | | 200 OK  {"success":true,"RecordId":5,"wrap":false,"logout":false,"errors":[]} | |

### Create Person (all fields populated)

|  |  |
| --- | --- |
| URI | http://hostname:18779/infinias/ia/People |
| Method | POST |
| Body | Id=0&  SaveImage=True&  ImageFilename=C:\\Users\\Pictures[\\image.jpg&](file:///\\image.jpg&)  KeepImageAspect=True&  IsCredentialHolder=True&  IsSystemUser=True&  ExternalId=101&  PersonalInfo.Id=0&  PersonalInfo.FirstName=John&  PersonalInfo.MiddleInitial=L&  PersonalInfo.LastName=Smith&  PersonalInfo.DisplayName=&  PersonalInfo.EmployeeId=0&  PersonalInfo.Title=Mr.&  PersonalInfo.Suffix=Jr.&  PersonalInfo.Department=Engineering&  ContactInfo.PrimaryEmail=username@company.com&  ContactInfo.SecondaryEmail=username@gmail.com&  ContactInfo.Company=Acme, Ltd.&  ContactInfo.Office=Indy&  ContactInfo.Building=Building 1&  ContactInfo.Position=Software&  ContactInfo.LicensePlateNumber=IA-1&  ContactInfo.Notes=This is a note&  ContactInfo.PrimaryPhoneNumber=555-1212&  ContactInfo.PrimaryExtension=99&  ContactInfo.CellPhoneNumber=555-9999&  GroupInfo.AddGroups=1&  GroupInfo.RemoveGroups=&  CustomFields=&  BadgeInfo.TimeZoneBias=0&  BadgeInfo.Disabled=False&  BadgeInfo.ExpirationDate=01/01/2099&  BadgeInfo.ExpirationTime=12:00:00 AM&  BadgeInfo.ActivationDate=01/01/2000&  BadgeInfo.ActivationTime=12:00:00 AM&  BadgeInfo.SiteCode=31&  BadgeInfo.CardIssueCode=18778&  BadgeInfo.PinCode=6666&  BadgeInfo.Id=0&  RoleInfo.Role=User&  RoleInfo.Username=user&  RoleInfo.Password=password&  RoleInfo.PasswordConfirm=password&  RoleInfo.PasswordChanged=True&  RoleInfo.ZoneId=1 |
| Returns | |  | | --- | | 404 Not Found | | 401 Unauthorized | | 200 OK  {"success":true,"RecordId":5,"wrap":false,"logout":false,"errors":[]} | |

### Update Person

|  |  |
| --- | --- |
| URI | http://hostname:18779/infinias/ia/People |
| Method | PUT |
| Body | (see the CreatePerson examples for explanation of the POST data) |
| Returns | |  | | --- | | 404 Not Found | | 401 Unauthorized | | 200 OK  {"success":true,"RecordId":5,"wrap":false,"logout":false,"errors":[]} | |

### Delete Person

|  |  |
| --- | --- |
| URI | http://hostname:18779/infinias/ia/People |
| Method | DELETE |
| URI Parameters | |  |  | | --- | --- | | id |  | |
| Returns | |  | | --- | | 404 Not Found | | 401 Unauthorized | | 200 OK  {"success":true,"RecordId":5,"wrap":false,"logout":false,"errors":[]} | |

### GetPersonImage

|  |  |
| --- | --- |
| URI | <http://localhost:18779/infinias/ia/people/image> |
| Method | Get |
| URI Parameters | |  |  | | --- | --- | | id |  | |
| Returns | |  | | --- | | 404 Not Found – person not found | | 401 Unauthorized | | 204 NoContent – person found, but no image available | | 200 OK  {"success":true,"RecordId":5,"wrap":false,"logout":false,"errors":[]} | |
| Example | http://localhost:18779/infinias/ia/people/image?username=admin&password=admin&id=2 |

## Events

The Events API provides the capability to get events or generate a new event into Intelli-M Access, which can then be configured on the Rules page to do whatever you wish. You can also raise the event level of an existing event, for example turning ordinary events into alarms. You'll need to know the Intelli-M Access event ID from the database to raise an event level.

### Get Events by Created DateTime

|  |  |
| --- | --- |
| URI | http://hostname:18779/infinias/ia/events |
| Method | GET |
| URI Parameters | |  |  | | --- | --- | | start | UTC DateTime of earliest event to be returned. | | pagesize | Max number of events to return | |
| Description | Get IA events based on the Created DateTime of the earliest event to be retrieved. Returns the latest pagesize events with a created DateTime greater than the start DateTime passed in. |
| Returns | |  | | --- | | 404 Not Found | | 401 Unauthorized | | 200 OK  {"Values":[  {"Alarmed":false,  "Manufacturer":"",  "Author":null,  "Device":null,  "Category":"Access Control",  "Action":null,  "Reason":"NeedsUpdate",  "Result":null,  "FirstName":"John",  "LastName":"Doe",  "FromZone":null,  "ToZone":null,  "CreatedUTC":"2014-07-11T15:02:14.4970000Z",  "Location":"Door 2”,  "SiteCode":"45",  "CardCode":"5792",  "DoorId":1,  "PersonId":2,  "Id":102}],  "NextRealizeUrl":"http://myserver:18779/infinias/ia/events?start=2014-07-11T15:02:14.4970000Z&pagesize=1"} | |
| Example | http://localhost:18779/infinias/ia/events?username=admin&password=admin&start=2014-07-11T15:02:14&pagesize=1 |

### Get Events by EventId

|  |  |
| --- | --- |
| URI | http://hostname:18779/infinias/ia/events |
| Method | GET |
| URI Parameters | |  |  | | --- | --- | | lastid | Id of last event retrieved, will return next pagesize events with id higher than lastid.  If lastid is omitted, then latest pagesize events are returned | | pagesize | Max number of events to return | |
| Description | Get IA events based on the id of the last event retrieved. To get the initial batch of events, omit lastid, then use the largest event id in subsequent calls to get subsequent events. |
| Returns | |  | | --- | | 404 Not Found | | 401 Unauthorized | | 200 OK  {"Values":[  {"Alarmed":false,  "Manufacturer":"",  "Author":null,  "Device":null,  "Category":"Access Control",  "Action":null,  "Reason":"NeedsUpdate",  "Result":null,  "FirstName":"John",  "LastName":"Doe",  "FromZone":null,  "ToZone":null,  "CreatedUTC":"2014-07-11T15:02:14.4970000Z",  "Location":"Door 2”,  "SiteCode":"45",  "CardCode":"5792",  "DoorId":1,  "PersonId":2,  "Id":102}],  "NextRealizeUrl":"http://myserver:18779/infinias/ia/events?lastEventId=102&pagesize=1"} | |
| Example | http://localhost:18779/infinias/ia/events?username=admin&password=admin&lastid=101&pagesize=1 |

### Generate an Event

|  |  |
| --- | --- |
| URI | http://hostname:18779/infinias/ia/events |
| Method | POST |
| Body | Manufacturer=acme&  Action=Granted  Category=Access&  Reason=Invalid Credentials  Device=none&  Result=success&  Username=admin&password=admin |
| Returns | |  | | --- | | 404 Not Found | | 401 Unauthorized | | 200 OK  {"success":true,"RecordId":999,"wrap":false,"logout":false,"errors":[]} | |

### Raise Alarm

|  |  |
| --- | --- |
| URI | http://hostname:18779/infinias/ia/events |
| Method | PUT |
| Body | eventId=999&  severity=128&  Username=admin&password=admin |
| Returns | |  | | --- | | 404 Not Found | | 401 Unauthorized | | 200 OK | |

# New Requests in Intelli-M Access 5.X

The new requests included in the Current API return consistently wrapped JSON formatted data.

## Cameras

### Get the details for a camera

|  |  |
| --- | --- |
| URI | http://hostname:18779/infinias/ia/Video/Cameras |
| Method | GET |
| URI Parameters | |  |  | | --- | --- | | CameraIds=1 (a comma separated list of camera ids) |  | |
| Returns | |  | | --- | | 404 Not Found | | 401 Unauthorized | | 200 OK  {  "Values":  [  {  "Name":"Camera 1",  "DvrUser":"admin",  "DvrPass":”pass”,  "DvrSerial":”serial”,  "DvrCamera":”1  }  ]  } | |
| Example | http://localhost:18779/infinias/ia/Cameras?username=admin&password=admin&cameraId=1 |

## Doors

### Get Simple Status for Doors

|  |  |
| --- | --- |
| URI | http://hostname:18779/infinias/ia/doors/status |
| Method | GET |
| Returns | |  | | --- | | 404 Not Found | | 401 Unauthorized | | 200 OK  {  "Values":  [  {  "Id": 8,  "Customer": "Customer1",  "Door": "Emulated1",  "ControllerStatus": "Offline",  "LockStatus": "UnlockedNormal",  "DoorStatus": "ClosedNormal",  "BatteryStatus": 0,  "InCameraId": 0,  "OutCameraId": 0  }  ]  } | |

#### LockStatus values

|  |  |
| --- | --- |
| **Value** | **Icon** |
| UnlockedNormal | C:\Users\tom.hamilton\AppData\Local\Microsoft\Windows\INetCache\Content.Word\door_unlocked_blue.png |
| LockedNormal | C:\Users\tom.hamilton\AppData\Local\Microsoft\Windows\INetCache\Content.Word\door_is_locked_green.png |
| UnlockedOverridden | C:\Users\tom.hamilton\AppData\Local\Microsoft\Windows\INetCache\Content.Word\door_unlocked_yellow.png |
| LockedOverridden | C:\Users\tom.hamilton\AppData\Local\Microsoft\Windows\INetCache\Content.Word\door_locked_yellow.png |

#### DoorStatus values

|  |  |
| --- | --- |
| **Value** | **Icon** |
| ClosedNormal | C:\Users\tom.hamilton\AppData\Local\Microsoft\Windows\INetCache\Content.Word\door_closed_green.png |
| OpenNormal | C:\Users\tom.hamilton\AppData\Local\Microsoft\Windows\INetCache\Content.Word\door_opened_blue.png |
| HeldOpen | C:\Users\tom.hamilton\AppData\Local\Microsoft\Windows\INetCache\Content.Word\door_opened_yellow.png |
| ForcedOpen | C:\Users\tom.hamilton\AppData\Local\Microsoft\Windows\INetCache\Content.Word\door_opened_red.png |

#### ControllerStatus values

|  |  |
| --- | --- |
| **Value** | **IA icon** |
| Idle |  |
| Online |  |
| Offline |  |
| TakenOffline |  |
| NeedsUpdate |  |
| UpdatingServices | C:\Users\tom.hamilton\AppData\Local\Microsoft\Windows\INetCache\Content.Word\device_updating.png |
| UpdatingCredentials |  |
| UpdatingFirmware |  |
| ErrorOnUpdate |  |
| ErrorOnFirmwareUpdate |  |
| Initializing |  |

#### BatteryStatus values

|  |  |
| --- | --- |
| **Value** | **Icon** |
| 0 |  |
| 1 - 4 |  |
| 5 - 14 |  |
| 15 - 24 |  |
| 25 - 34 |  |
| 35 - 44 |  |
| 45 - 54 |  |
| 55 - 64 |  |
| 65 - 74 |  |
| 75 - 84 |  |
| 85 - 94 |  |
| 95 - 100 |  |

## Events

### Get Event Summaries by last id

This request is used to retrieve a condensed version of events, since the last retrieved event Id. An associated camera Id has been added to the event fields.

|  |  |
| --- | --- |
| URI | http://hostname:18779/infinias/ia/events/summary |
| Method | GET |
| URI Parameters | |  |  | | --- | --- | | lastid | Id of last event retrieved, will return next pagesize events with id higher than lastid.  If lastid is omitted, then latest pagesize events are returned | | pagesize | Max number of events to return | |
| Description | Get events based on the id of the last event retrieved. To get the initial batch of events, omit lastid, then use the largest event id in subsequent calls to get subsequent events. |
| Returns | |  | | --- | | 404 Not Found | | 401 Unauthorized | | 200 OK - Example return value:  {  "Values":  [  {  "Id":9999,  "Who":”Doe, John”,  "Door":"Front Door",  "ToZone":”Inside”,  "CreatedUTC":"2014-07-11T15:02:14.4970000Z",  "Reason":"Unknown Credential Status”,  "InCameraId":1,  "OutCameraId":2,  “DoorId”:2  "Alarmed":128,  }  ],  "NextRealizeUrl":<http://myserver:18779/infinias/ia/events/summary?lastId=9999&pagesize=1>  } | |
| Example | http://localhost:18779/infinias/ia/events/summary?username=admin&password=admin&lastid=9998&pagesize=1 |
| Comment |  |

### Search Events history by time range and people, door, or reason

This request is used to search for events based on time range and person, door or reason

|  |  |
| --- | --- |
| URI | http://hostname:18779/infinias/ia/events/history |
| Method | GET |
| URI Parameters | |  |  | | --- | --- | | personids | List of person ids, optional,  Defaults to any person | | doorIds | List of door ids, optional,  Defaults to any door | | reasonIds | List of reason ids, optional,  Defaults to any reason | | startTimeUTC | Start of time range in UTC, required | | endTimeUTC | End of time range in UTC, required | | minAlarmValue | Minimum alarmed value, optional,  Defaults to 0 | | limit | Max number of event to return, optional, defaults to 100 | |
| Returns | |  | | --- | | 404 Not Found | | 401 Unauthorized | | 200 OK - Example return value:  {  "Values":  [  {  "Id":9999,  "Who":”Doe, John”,  "Door":"Front Door",  "FromZone":”Outside”,  "ToZone":”Inside”,  "CreatedUTC":"2014-07-11T15:02:14.4970000Z",  "Reason":"Unknown Credential Status”,  "InCameraId":1,  "OutCameraId":2,  "DoorId":2,  "Alarmed":128,  }  ]  } | |
| Example | http://myserver:18779/infinias/ia/events/history?personids=9&doorids=2&startTimeUTC=2015/01/01 13-12-12&endTimeUTC=2015/01/01 14-12-12&limit=10 |
| Comment |  |

### Get list of event reasons

This request is used to retrieve a list of valid event reasons

|  |  |
| --- | --- |
| URI | http://hostname:18779/infinias/ia/events/reasons |
| Method | GET |
| Returns | |  | | --- | | 404 Not Found | | 401 Unauthorized | | 200 OK - Example return value:  {  "Values": [  {  "Id": 4,  "Name": "AntiPassbackViolation",  "DisplayName": "Anti Passback Violation"  },  {  "Id": 70,  "Name": "CardHolderManagement",  "DisplayName": "Card Holder Management"  },  {  "Id": 25,  "Name": "CardReaderActive",  "DisplayName": "Card Reader Active"  }  ]  } | |
| Example | http://myserver:18779/infinias/ia/events/reasons?username=admin&password=admin |
| Comment |  |

## Person

### Suspend Person

This request disables the specified person’s credentials in the IA system. The credentials can only be re-enabled through the Intelli-M Access web application.

|  |  |
| --- | --- |
| URI | http://hostname:18779/infinias/ia/people/suspend |
| Method | PUT |
| Body | Id=999&username=admin&password=admin |
| Returns | |  | | --- | | 404 Not Found | | 401 Unauthorized | | 200 OK | |
| Comment |  |

## Scope

### Get Scope

Get the user’s scope

|  |  |
| --- | --- |
| URI | http://hostname:18779/infinias/ia/zones/scope |
| Method | GET |
| Returns | |  | | --- | | 404 Not Found | | 401 Unauthorized | | 200 OK  {  "Values":  [  {  "Name":"Inside",  "Id":"2",  }  ]  } | |
| Comment |  |

### Set Scope

Set the user’s scope to the specified zone, specified by id. Set the zoneId to -1 to clear the scope.

|  |  |
| --- | --- |
| URI | http://hostname:18779/infinias/ia/zones/scope |
| Method | PUT |
| Body | Id=999&username=admin&password=admin |
| Returns | |  | | --- | | 404 Not Found | | 401 Unauthorized | | 200 OK | |

## Customers

The Customers API provides the capability to create new hosted Intelli-M Access customers.

* ParentCustomerId must be the CustomerId of an existing Customer.
* CustomerType specifies a direct or indirect customer

### Create Customer

|  |  |
| --- | --- |
| URI | <http://hostname:18779/infinias/ia/customers> |
| Method | POST |
| Body:  Form -UrlEncoded | CustomerId=e6be03dd-46bb-4148-916a-83fe34ee684a  ParentCustomerId=  CustomerName=ShaneCo  CustomerType=direct |
| Returns | |  | | --- | | 404 Not Found | | 401 Unauthorized | | 200 OK - with success true or false  {  “success”: true,  “errors”: []  } | |

### Get Customer Details

|  |  |
| --- | --- |
| URI | <http://hostname:18779/infinias/ia/customers/Details> |
| Method | GET |
| URI Parameters | |  |  | | --- | --- | | CustomerId= 12ACA792-C59F-43E3-AA6F-0D61C5E40E2F | String (50 characters maximum) | |
| Returns | |  | | --- | | 404 Not Found | | 401 Unauthorized | | 200 OK  {  "Values":  [  {  “CustomerID”: “e6be03dd-46bb-4148-916a-83fe34ee684f”,  “CustomerName”: “DavenCo”,  “ParentCustomerID”: null,  “CustomerType”: 1,  “ZoneId”: 3  }  ]  } | |
| Example | <http://localhost:18779/infinias/ia/customers/Details?Username=admin&Password=admin&CustomerId=12ACA792-C59F-43E3-AA6F-0D61C5E40E2F> |

### Get Branding – needs more definition

Get branding for the customer associated with the requesting user.

|  |  |
| --- | --- |
| URI | http://hostname:18779/infinias/ia/customer/branding |
| Method | GET |
| Returns | |  | | --- | | 404 Not Found | | 401 Unauthorized | | 200 OK – returns url to branding content  {“url”:<branding url> | |

### Get Contact Information – needs more definition

Get contact information for the customer associated with the requesting user.

|  |  |
| --- | --- |
| URI | http://hostname:18779/infinias/ia/customer/branding |
| Method | GET |
| Returns | |  | | --- | | 404 Not Found | | 401 Unauthorized | | 200 OK – returns url to content information  {“url”:<content url> | |

### Get all users for a customer

Fetch user info for all users in a given customer’s zone.

|  |  |
| --- | --- |
| URI | http://hostname:18779/infinias/ia/users/bycustomer |
| Method | GET |
| URI Parameters | |  |  | | --- | --- | | CustomerId=12ACA792-C59F-43E3-AA6F-0D61C5E40E2F | String (50 characters maximum) | |
| Returns | |  | | --- | | 404 Not Found | | 401 Unauthorized | | 200 OK  {  "Values":  [  {  "CustomerZoneId": 3,  "FirstName": "Shane",  "LastName": "Southwood",  "Username": "shane.southwood@3xlogic.com",  "Id": 0  },  {  "CustomerZoneId": 3,  "FirstName": "Shane2",  "LastName": "Southwood2",  "Username": "shane.southwood@3xlogic.com2",  "Id": 0  }  ]  } | |
| Example | http://localhost:18779/infinias/ia/users/ByCustomer?Password=admin&Username=admin&CustomerId=12ACA792-C59F-43E3-AA6F-0D61C5E40E2F |
| Comment |  |

## Users

The Customers API provides the capability create a new hosted Intelli-M Access user. The created user is the top-level supervisor user for that customer.

### Create User

|  |  |
| --- | --- |
| URI | http://hostname:18779/infinias/ia/users |
| Method | POST |
| Body:  Form -UrlEncoded | CustomerId=e6be03dd-46bb-4148-916a-83fe34ee684f&  PersonalInfo.FirstName=John&  PersonalInfo.LastName=Smith&  RoleInfo.Username=user@company.com&  RoleInfo.Password=password |
| Returns | |  | | --- | | 404 Not Found | | 401 Unauthorized | | 200 OK - with success true or false  {  "success": true,  "errors": []  } | |

## Version

The Version API provides the capability to fetch Intelli-M version information.

### Get Intelli-M Access Version

Fetch Intelli-M Access version information.

|  |  |
| --- | --- |
| URI | http://localhost:18779/infinias/ia/version |
| Method | GET |
| Returns | |  | | --- | | 404 Not Found | | 401 Unauthorized | | 200 OK  {  “version":"5.1.2777.0”  } | |
| Example: | http://localhost:18779/infinias/ia/version?Username=admin&Password=admin |

## Access Token

The Access Token API provides the capability to fetch Intelli-M version information. Username and password must be provided on the URL for GET request or in the form’s body for POST request.

|  |  |
| --- | --- |
| URI | https://hostname:18780/infinias/ia/access/token?username=admin&password=admin |
| Method | Get |
| Returns | |  | | --- | | 401 Unauthorized | | 200 OK  {“token”: “njd9wng4d0ycwnn3g4d1jm30yig4d27iom5lg4d3”  } | |

|  |  |
| --- | --- |
| URI | <https://hostname:18780/infinias/ia/access/token> |
| Method | Post |
| Body:  Form -UrlEncoded | username=admin  password=admin |
| Returns | |  | | --- | | 401 Unauthorized | | 200 OK  {“token”: “njd9wng4d0ycwnn3g4d1jm30yig4d27iom5lg4d3”,  “userId”:65454654  } | |

Once an access token is acquired, the proceeding calls to the API must include the token in the header as a Bearer authorization property, and the username and password arguments can be remove from the API calls. This endpoint also return the user’ id of the account associated with the credentials used acquired the Access Token.

Token usage example:

|  |  |
| --- | --- |
| URI | [https://hostname:18780/infinias/ia/[any](https://hostname:18780/infinias/ia/%5bany) endpoint] |
| Method | POST, GET, DELETE, PUT |
| Headers | |  | | --- | | Authorization: Bearer njd9wng4d0ycwnn3g4d1jm30yig4d27iom5lg4d3 | |
| Returns | |  | | --- | | 401 Unauthorized | | 200 OK  API response | |